



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Estimated Damage Property Crops	Character of Storm
----------	------	----------------------------	---------------------------	--------------------------	--------	---------------------------------	---------------------------------------	--------------------

### MICHIGAN, East

**MIZ047>049-053>055-060>063-068>069-075**      **Midland - Bay - Huron - Saginaw - Tuscola - Sanilac - Shiawassee - Genesee - Lapeer - St. Clair - Livingston - Oakland - Washtenaw**

02	1300EST 1700EST	0	0	High Wind (G35)
----	--------------------	---	---	-----------------

A cold front moved east across southeast Michigan early in the afternoon. West to northwest winds behind the cold front gusted as high as 40 mph. These winds, following so closely on the heels of the derecho of May 31st, caused some problems. Some tree limbs and power lines, undoubtedly weakened by the severe weather two days previous, came down. Detroit Edison estimated that 40,000 customers lost power, and Consumers Energy reported that the gusty winds put the restoration of electrical service from the May 31st storms behind schedule.

Monroe County 2 N Ottawa Lake to Petersburg	12	1630EST	0	0	Hail (0.75)
Lenawee County Cambridge Jct	12	1635EST	0	0	Hail (0.75)
Monroe County Ida	12	1640EST	0	0	5K Thunderstorm Wind (G52)
Washtenaw County 1 SE Saline to 3 NW Milan	12	1700EST 1705EST	0	0	40K Thunderstorm Wind (G52)
Washtenaw County 3 N Ypsilanti to 5 S Ypsilanti	12	1719EST 1725EST	0	0	5K Thunderstorm Wind (G52)
Wayne County Belleville	12	1730EST	0	0	Thunderstorm Wind (G52)

A strong area of low pressure moved slowly east across the Upper Peninsula of Michigan during the day. The associated cold front crossed the Lower Peninsula during the late afternoon and evening hours. Severe thunderstorms developed in southern Michigan ahead of the cold front.

The cluster of storms that affected southeast Michigan had produced a tornado near Battle Creek earlier in the day. No tornadoes occurred in southeast Michigan; in fact, most of damage was only marginally severe. The exception to this was in the small community of Mooreville in southern Washtenaw County. Almost every residence in town suffered at least some tree damage, several cars were damaged, and the roof of a house was smashed.

Elsewhere, a couple of trees were downed just southeast of Saline, as well as south of Ypsilanti. A spotter north of Ypsilanti estimated 60 mph winds, as did the general public in Belleville. In Ida, a tree was downed, and several telephone poles were bent by thunderstorm winds. Dime sized hail was reported near Michigan Speedway and in western Monroe County.

Livingston County 1.5 SSE Hartland	14	1700EST	0	0	10K Lightning
---------------------------------------	----	---------	---	---	------------------

A lightning strike damaged electrical equipment at the Hartland Township wastewater treatment plant.

Wayne County Livonia	16	1650EST	0	0	2K Lightning
Wayne County Detroit	16	1800EST M23OU	1	0	Lightning
Wayne County Taylor	16	1830EST	0	2	Lightning



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
----------	------	----------------------------	---------------------------	--------------------------	--	---------------------------------------	--------------------

### MICHIGAN, East

#### Washtenaw County

3 W Hudson Mills	16	1852EST			0	0	100K	Lightning
------------------	----	---------	--	--	---	---	------	-----------

#### Oakland County

Oxford	16	2030EST			0	0	5K	Thunderstorm Wind (G52)
--------	----	---------	--	--	---	---	----	-------------------------

A broad but weak area of low pressure was located over the Great Lakes. A trough dropped slowly southeast across southeast Michigan during the late afternoon hours. Interactions between this trough and a number of lake breeze boundaries ignited thunderstorms. Only one storm became severe, as several trees were downed in Oxford. However, the storms were prodigious lightning producers.

A man in Detroit was killed by lightning as he was walking from his home to his car. He was carrying a tire iron, which may have contributed to the strike. Two were injured when lightning struck at a Little League game in Taylor. A woman suffered convulsions and was taken to the hospital, which she was released from later that night. A boy was knocked down, but was treated at the scene, and a trip to the hospital was not required. On Peach Mountain in northern Washtenaw County, the transmitting antenna for WUOM radio was struck by lightning. Both the transmission line to the antenna, and the antenna itself, had to be replaced. A residence in Livonia suffered significant damage after a lightning strike.

#### Monroe County

Lambertville	19	0230EST			0	0	15K	Thunderstorm Wind (G52)
--------------	----	---------	--	--	---	---	-----	-------------------------

#### Monroe County

1 N North Shrs	19	0300EST			0	0	1K	Thunderstorm Wind (G52)
----------------	----	---------	--	--	---	---	----	-------------------------

A warm front slowly moved north into southern Michigan in the early morning hours. Thunderstorms developed along this front, and two of them became marginally severe. Trees were downed in Lambertville; one did substantial damage when it fell on a home. Numerous limbs were downed on the Lake Erie shoreline in LaSalle Township; one home had a window broken by a falling limb. A plastic lawn chair was also smashed.

#### Tuscola County

Fairgrove	21	1430EST			0	0	3K	Thunderstorm Wind (G52)
-----------	----	---------	--	--	---	---	----	-------------------------

#### Shiawassee County

1 S Owosso	21	1615EST			0	0	2K	Thunderstorm Wind (G52)
------------	----	---------	--	--	---	---	----	-------------------------

#### Saginaw County

Bridgeport	21	1715EST			0	0	8K	Thunderstorm Wind (G52)
------------	----	---------	--	--	---	---	----	-------------------------

A trough of low pressure moved across lower Michigan during the afternoon. Scattered thunderstorms developed in the unstable air ahead of the trough. These were typical 'pulse' type storms, with a few of them becoming marginally severe. Some large tree limbs were downed onto power lines in Fairgrove, and a pair of trees were downed just south of Owosso. Several trees and many limbs were downed in Bridgeport Township.

#### Midland County

Edenville to Sanford	24	1610EST 1615EST			0	0		Hail (1.75)
-------------------------	----	--------------------	--	--	---	---	--	-------------

#### Bay County

3 NW Pinconning	24	1630EST			0	0		Hail (1.75)
-----------------	----	---------	--	--	---	---	--	-------------

#### Washtenaw County

Chelsea to 5 NW Chelsea	24	1722EST 1727EST			0	0		Hail (1.75)
----------------------------	----	--------------------	--	--	---	---	--	-------------

#### Washtenaw County

4.5 N Chelsea	24	1725EST			0	0	20K	Lightning
---------------	----	---------	--	--	---	---	-----	-----------

#### Washtenaw County

Chelsea	24	1740EST			0	0		Hail (1.00)
---------	----	---------	--	--	---	---	--	-------------



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
<b><u>MICHIGAN, East</u></b>									
Washtenaw County Sylvan to Lima	24	1740EST 1754EST			0	0	40K		Thunderstorm Wind (G65)
Midland County Coleman	24	1743EST			0	0			Hail (1.00)
Midland County Edenville	24	1750EST			0	0			Hail (0.75)
Washtenaw County Ann Arbor to Ypsilanti	24	1810EST 1815EST			0	0			Thunderstorm Wind (G65)
Washtenaw County Whittaker to Milan	24	1815EST 1820EST			0	0			Hail (1.75)
Washtenaw County Ypsilanti to Pittsfield	24	1815EST 1819EST			0	0			Hail (1.75)
Washtenaw County Whittaker to 1.5 W Whittaker	24	1820EST 1835EST			0	0			Thunderstorm Wind (G61)
Lenawee County Macon	24	1825EST			0	0	2K		Thunderstorm Wind (G52)
Monroe County 2 N Maybee to 2 S Carleton	24	1828EST 1843EST			0	1	15K		Thunderstorm Wind (G52)
Washtenaw County Milan	24	1835EST			0	0			Hail (1.75)
Monroe County Dundee	24	1840EST			0	0	5K		Thunderstorm Wind (G52)
Monroe County Stony Pt	24	1859EST			0	0			Hail (0.75)
Monroe County 1 E Temperance	24	1904EST			0	0			Thunderstorm Wind (G52)

Thunderstorms developed in a warm and humid airmass during the afternoon. The storms focused on a pair of east-west oriented boundaries: one stretched across central lower Michigan, while the second was a weak warm front moving north into the southern portion of the state. Thunderstorms near both boundaries became severe.

Storms near the northern boundary were hail producers. Golfball sized hail was reported by a spotter in Sanford, and also by the Michigan State Police northwest of Pinconning. Dime to quarter sized hail was reported at a number of other locations in Midland and Bay Counties.

Along the warm front, a large supercell developed in south-central Michigan. It moved east and then turned southeast across southeast Michigan. Hardest hit was Washtenaw County, most notably around Chelsea, and from Milan to Whittaker. These locations were affected by parts of the supercell for an extended period of time. Severe weather started in the area around and north of Chelsea, where golfball sized hail fell. A lightning strike started a house fire north of Chelsea. Quarter sized hail fell in Chelsea about 20 minutes later, but this part of the storm was more noted for the wind damage it caused. Trees were downed in Sylvan, Chelsea, and Lima. A truck was destroyed by a fallen tree in Sylvan, and a few homes in Chelsea were damaged in a similar manner. Wind gusts also destroyed in barn in Lima. The wind was estimated at 75 mph in Chelsea.

The supercell covered the Milan-Whittaker area with golfball sized hail. A spotter in Whittaker estimated 70 mph winds. Again, a second component of the large supercell caused severe weather 15 to 20 minutes later. This one also produced golfball sized hail in Milan, and emergency management officials estimated 70 mph winds just west of Whittaker.

Although not hit as hard, the Ann Arbor-Ypsilanti area also saw severe weather. A spotter in Ann Arbor estimated 60 mph winds on the fringe of the supercell, while a spotter in Ypsilanti saw golfball sized hail and 75 mph winds. Another spotter in Pittsfield saw dime sized hail.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
----------	------	----------------------------	---------------------------	--------------------------	--	---------------------------------------	--------------------

### MICHIGAN, East

The supercell continued southeast into Lenawee and Monroe Counties. Only the northeast corner of Lenawee County was grazed, as trees were downed near Macon. Monroe County took a more substantial hit. A golfer at Thorn Hills Golf Club, northeast of Maybee, was hurt when a large tree limb fell on him. Trees were also downed in Dundee and Raisinville Township. A spotter estimated 60 mph winds in Maybee, as did emergency management officials just south of Carleton. Dime sized hail fell at the Fermi II Nuclear Power Plant. Finally, a sheriff just east of Temperance estimated a gust of 60 mph.

This supercell would go on to cause substantial damage in northern Ohio

<b>Tuscola County</b> Mayville	25	2015EST			0	0	2K	Thunderstorm Wind (G52)
<b>Tuscola County</b> Vassar	25	2015EST			0	0	2K	Thunderstorm Wind (G52)
<b>Shiawassee County</b> Owosso	25	2115EST			0	0		Thunderstorm Wind (G52)
<b>Genesee County</b> Clio	25	2142EST 2157EST			0	0		Hail (1.75)
<b>Tuscola County</b> Millington	25	2208EST 2212EST			0	0		Hail (1.75)
<b>Shiawassee County</b> Byron	25	2210EST			0	0		Thunderstorm Wind (G52)
<b>Genesee County</b> Fenton	25	2233EST			0	0		Hail (0.75)
<b>Genesee County</b> Grand Blanc	25	2257EST			0	0		Hail (0.75)
<b>Lenawee County</b> Addison	26	0119EST			0	0	5K	Thunderstorm Wind (G52)
<b>Washtenaw County</b> 4 N Chelsea	26	0125EST			0	0	2K	Thunderstorm Wind (G52)
<b>Washtenaw County</b> Dexter to 2 W Ann Arbor	26	0137EST 0152EST			0	0	10K	Thunderstorm Wind (G52)
<b>Washtenaw County</b> 3 N Manchester	26	0139EST			0	0		Thunderstorm Wind (G52)

A hot and humid airmass had settled over Michigan. Afternoon temperatures rose into the 90s, with dew points in the 70s. This produced an unstable air mass, and scattered thunderstorms developed in the evening hours. The approach of an upper level jet allowed some thunderstorms to persist well past midnight.

During the evening, severe thunderstorms sporadically produced large hail and damaging winds. Power lines were downed by winds in Mayville, and a large tree was felled in Vassar. Gusts of 60 mph were estimated in both Owosso and Byron. In Clio, the problem was hail; dime sized or larger hail fell for fifteen minutes. Golfball sized hail fell on two occasions during that time period. Large hail was also reported in parts of Tuscola County, and in southern Genesee County.

A weakening area of thunderstorms moved southeast into Washtenaw and Lenawee Counties after midnight. These storms were still potent enough to generate severe wind gusts in the western parts of these counties. Trees were downed in Dexter, Addison, north of Chelsea, and just west of Ann Arbor. Law enforcement estimated a 60 mph gust near Manchester. These storms weakened below severe limits as they continued east.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
----------	------	----------------------------	---------------------------	--------------------------	--------------------------------	---------------------------------	---------------------------------	------------------------------	--------------------

### MICHIGAN, East

#### Lenawee County 3 S Rome Center

26 0545EST 0 0 6K Lightning

Lightning struck a home on Plank Road, causing significant electrical damage.

#### Lenawee County Medina

27 1455EST 0 0 Hail (0.88)

A warm front lay across the southern border of Michigan. A number of severe thunderstorms developed south of the front in Indiana and Ohio, but only one severe cell developed in southeast Michigan. A citizen reported nickel sized hail with this thunderstorm in southwest Lenawee County.

#### St. Clair County Port Huron

30 0200EST 0 0 5K Lightning

#### Oakland County Oxford

30 0230EST 0 0 Hail (0.75)

#### Oakland County Oxford

30 0230EST 0 0 10K Thunderstorm Wind (G52)

#### Lapeer County Lapeer

30 0233EST  
0235EST 0 0 Hail (0.75)

The atmosphere over southeast Michigan was warm, humid, and unstable. Scattered thunderstorms developed in the early morning hours, just ahead of a strong upper level disturbance. A couple of these storms became marginally severe. Five trees and some power lines were downed in Oxford. Dime sized hail fell in Oxford and in Lapeer. In Port Huron, a lightning strike felled a tree onto an automobile.

#### Huron County 5 NW Sebewaing

30 0930EST 0 0 Waterspout

#### Tuscola County 4 SW Cass City

30 0945EST 0.1 10 0 0 5K Tornado (F0)

A cold front passed through southeast Michigan around daybreak. Unseasonably cool air was ushered in aloft, maintaining some instability. A few showers developed in the Saginaw Bay area during the morning hours. Low level convergence along a lake breeze front provided additional support for precipitation. A number of funnel clouds were reported with these showers in Tuscola and Huron Counties. A brief touchdown was observed by a law enforcement official southwest of Cass City, where a residence suffered minor damage. Earlier, a waterspout had been observed from Sebewaing over Saginaw Bay.

#### Washtenaw County 1 NE Milan to 3 N Whittaker

30 1145EST  
1148EST 0 0 Hail (0.75)

#### Washtenaw County Pittsfield

30 1145EST 0 0 40K Lightning

#### Washtenaw County 3 N Whittaker

30 1148EST 0 0 Thunderstorm Wind (G52)

#### Monroe County 3 S Maybee

30 1225EST 0 0 5K Thunderstorm Wind (G52)

A few thunderstorms developed behind a cold front and ahead of a surface trough at around midday. One thunderstorm became marginally severe in far southeast Michigan. This storm caused dime sized hail in southeast Washtenaw County, and a spotter north of Whittaker estimated 60 mph winds. Lightning started a house fire in Pittsfield Township. South of Maybee in Monroe County, this storm uprooted a tree and downed power lines.